

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3063 - L2 Version 001  
Chandra X-Ray Center

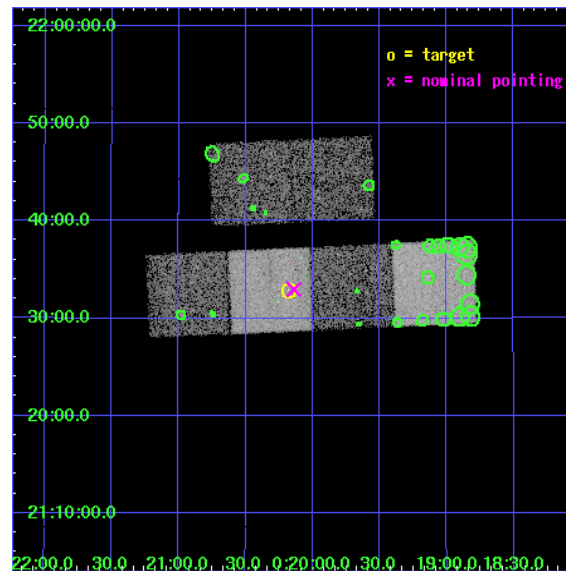
L2 Processing Date : Oct 5 2006

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

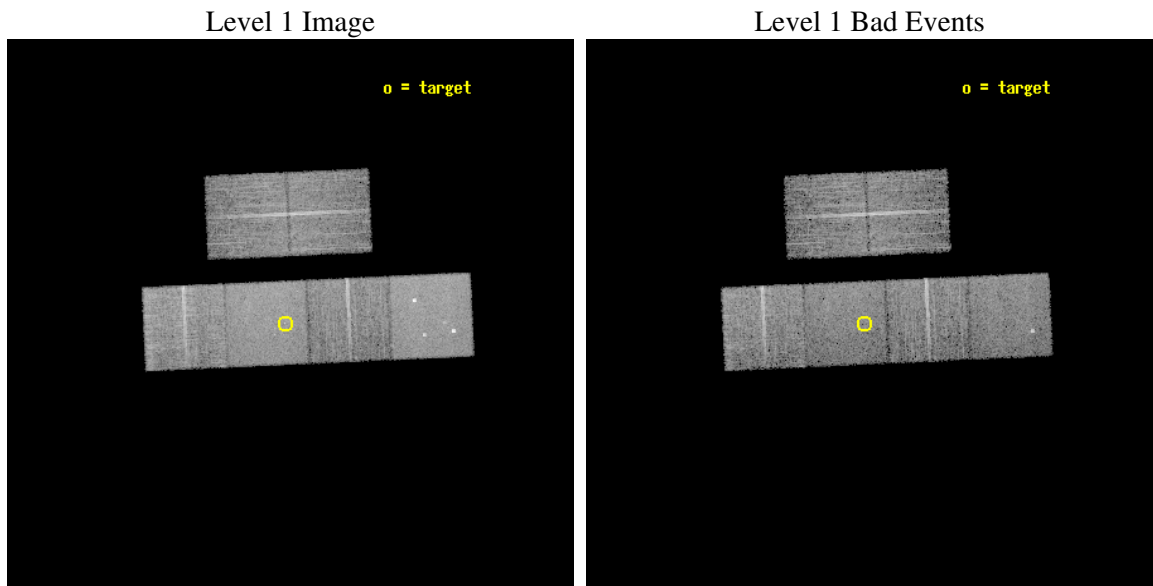
seq_num	700502
obs_id	3063
title	X-RAY WEAK BROAD-LINE QUASARS: ABSORPTION OR INTRINSIC X_RAY WEAKNESS ?
observer	Dr Guido Risaliti
object	HS 0017+2116
dtcycle	0
cycle	P
ra_targ	5.045
dec_targ	21.5475
ra_nom	5.0348450721411
dec_nom	21.549601989185
roll_nom	177.39441245281
revision	2
ontime	10127.958991975
livetime	9999.7126768935
ontime2	10131.199962258
ontime3	10124.718031734
ontime5	10131.199962258
ontime6	10131.199962258
ontime7	10127.958991975
ontime8	10131.199962258
l2events	93843



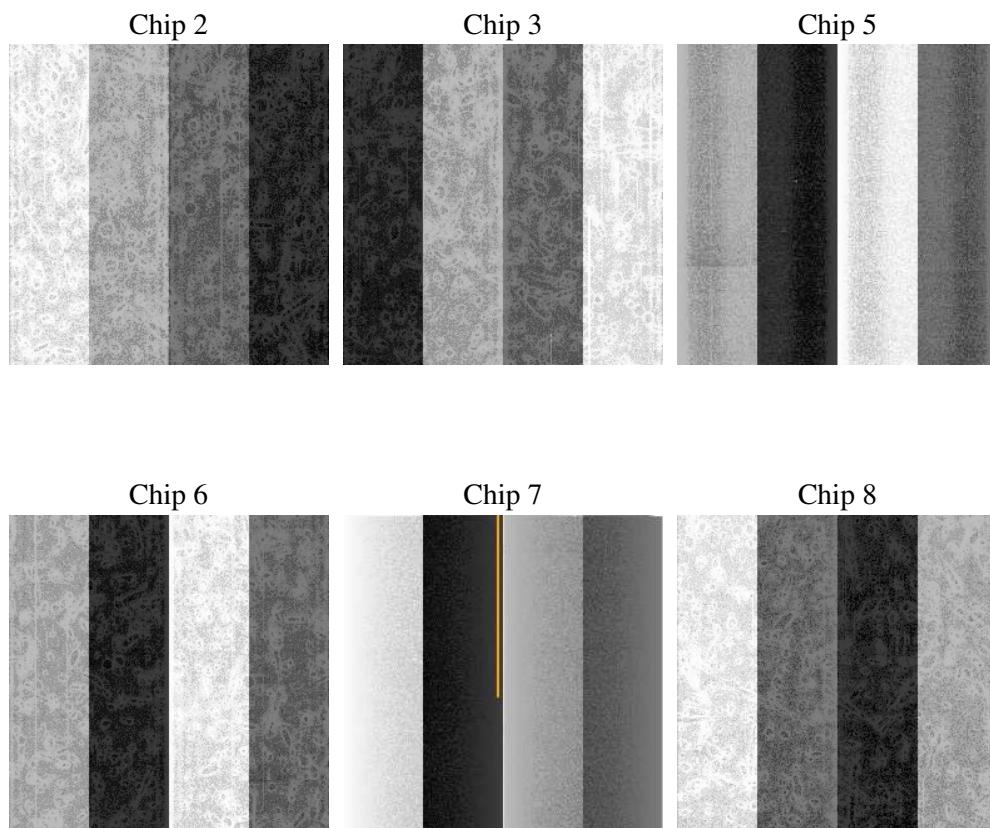
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-05T15:47:31
revision	2

sched_exp_time	10000.000000
ontime	10283.701575756
ontime2	10286.94254604
ontime3	10280.460615516
ontime5	10286.94254604
ontime6	10286.94254604
ontime7	10283.701575756
ontime8	10286.94254604
l1events	450299

### 2.1.4 Events

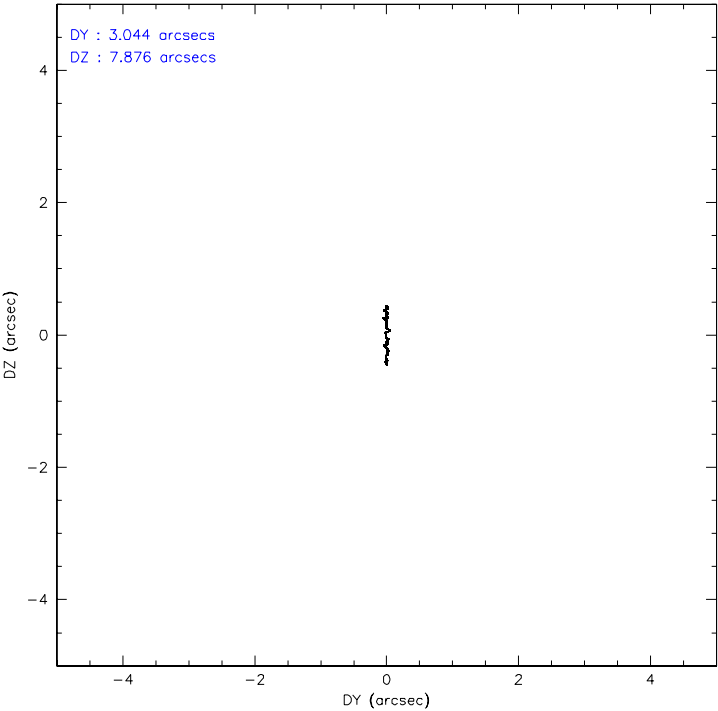
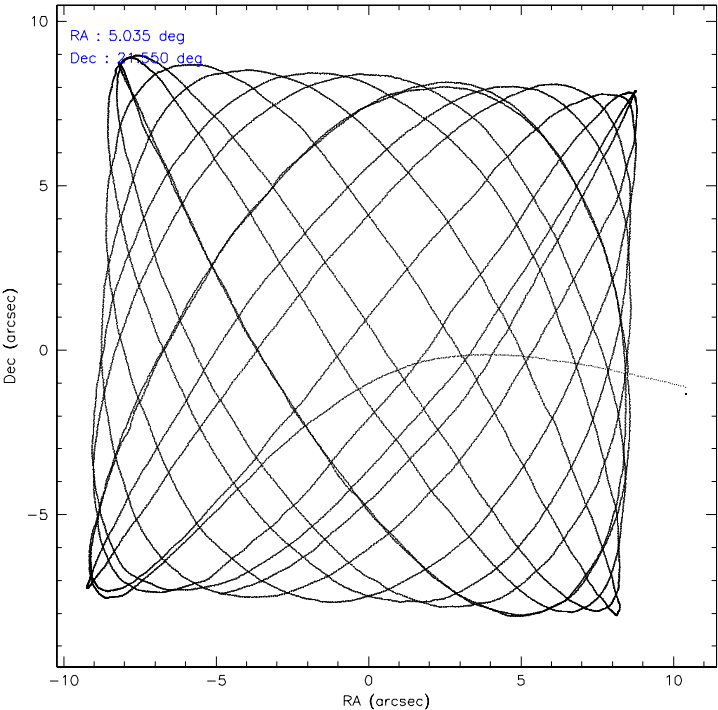
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	63400	62754	92786	63954	84063	83342
rejected events	56118	55634	52287	56365	52802	65367
rejected %	88%	88%	56%	88%	62%	78%

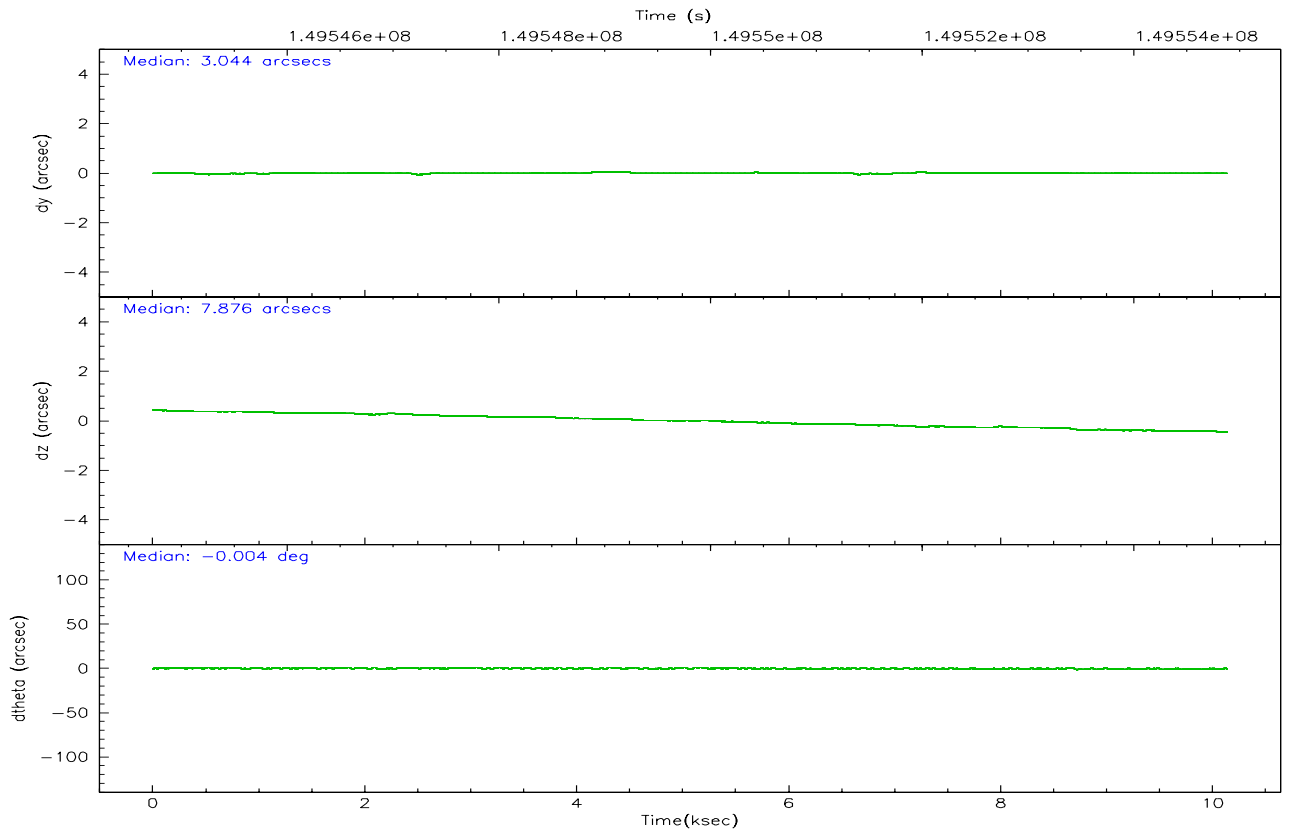
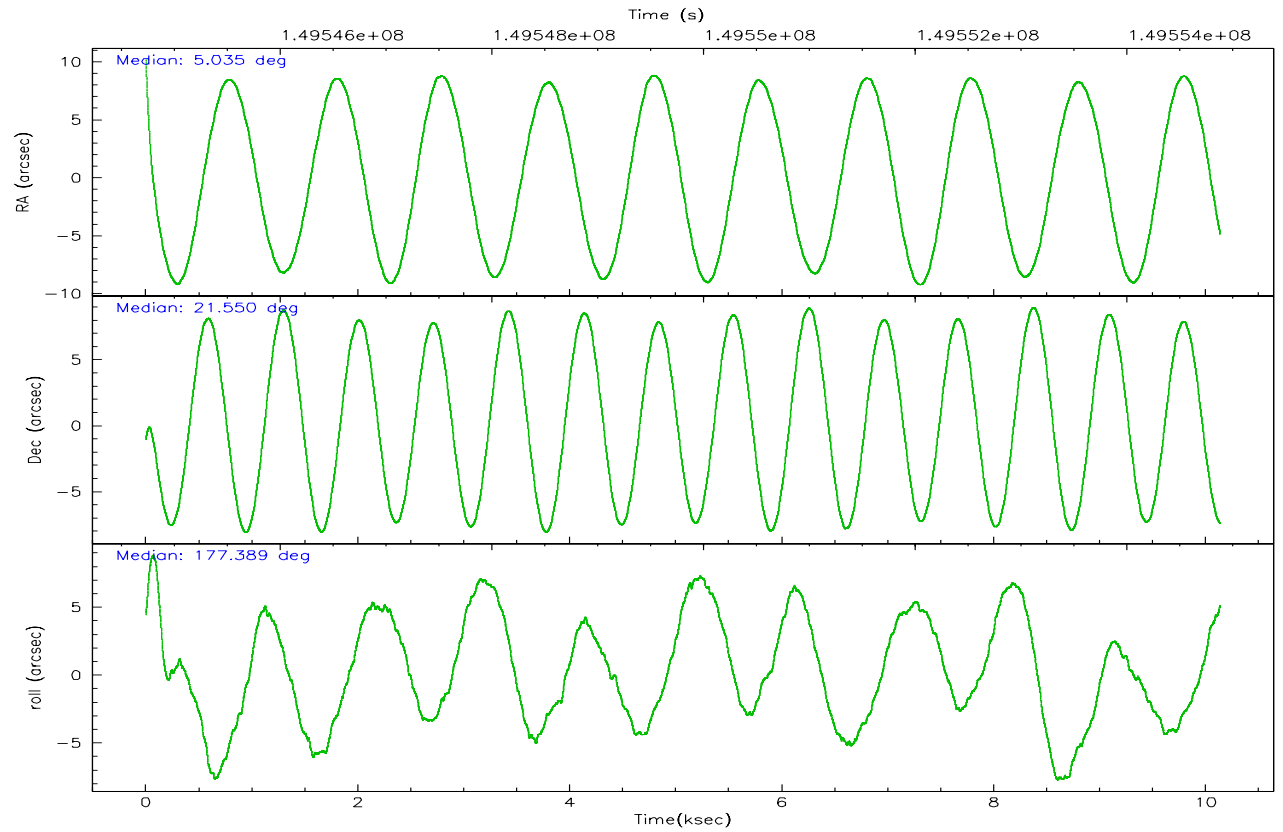
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3305	3259	3892	3069	1976	5863
	5%	5%	4%	4%	2%	7%
grade 1 events	45	34	65	21	34	42
	0%	0%	0%	0%	0%	0%
grade 2 events	1471	1312	12537	1546	7790	3793
	2%	2%	13%	2%	9%	4%
grade 3 events	702	712	1209	771	1630	2117
	1%	1%	1%	1%	1%	2%
grade 4 events	754	660	857	709	1584	1928
	1%	1%	0%	1%	1%	2%
grade 5 events	2568	2608	4749	2879	5526	3647
	4%	4%	5%	4%	6%	4%
grade 6 events	1156	1280	22649	1603	18734	4705
	1%	2%	24%	2%	22%	5%
grade 7 events	53399	52889	46828	53356	46789	61247
	84%	84%	50%	83%	55%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	5.060674	5.034845072141124	Subarray requested	NONE	NONE
Pointing Dec	21.562476	21.54960198918477	Alternating exposures requested	N	N
Pointing Roll	177.228295	177.3944124528068	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	149544874.184000	149543753.45017			
Observation start date	2002-09-27T20:13:30	2002-09-27T19:55:53			
Observation end time	149554874.184000	149555912.51317			
Observation end date	2002-09-27T23:00:10	2002-09-27T23:18:32			
Read mode	TIMED	TIMED			

2.3 Aspect





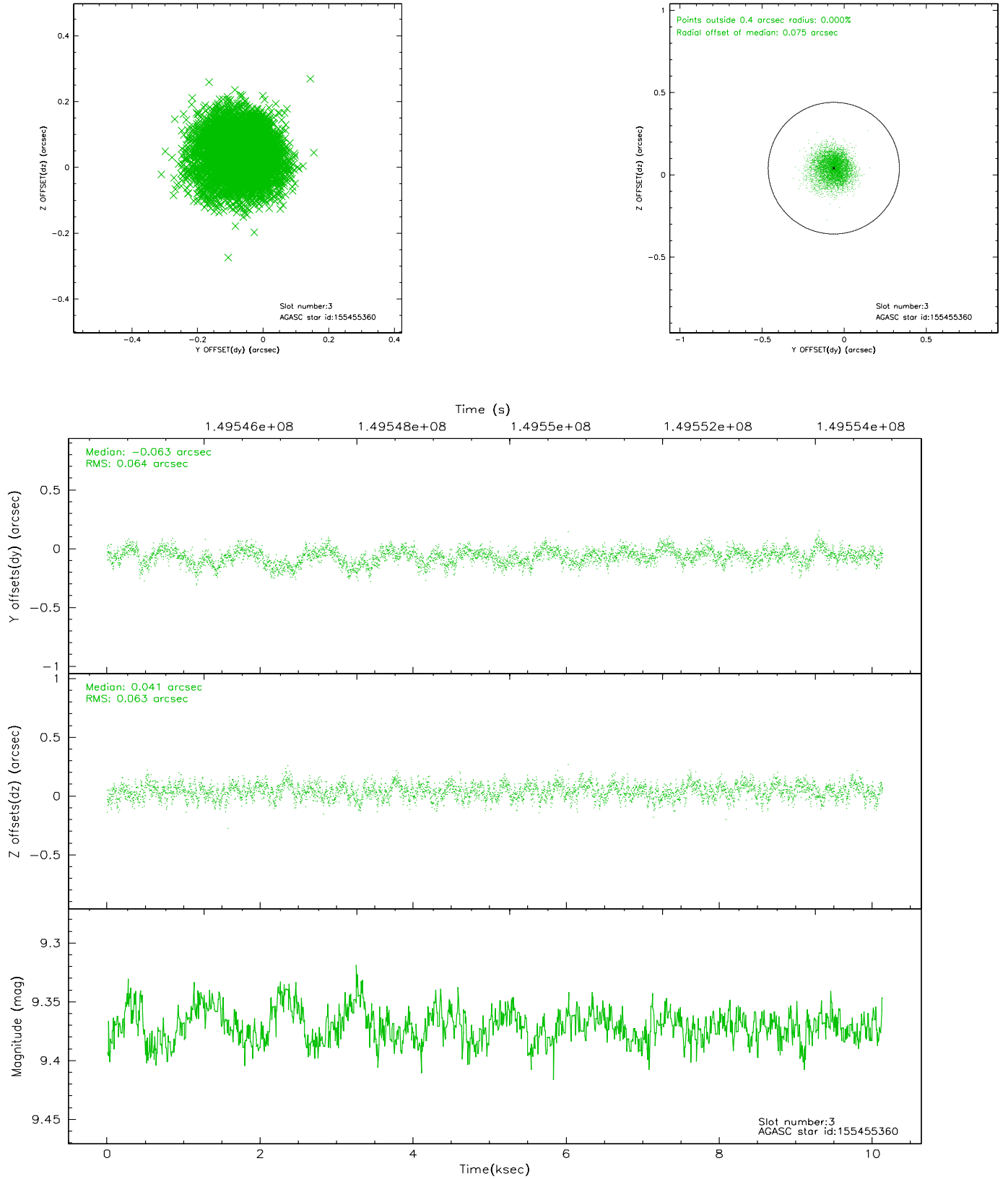
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2472	0.002	0.018	0.007	0.012	0.000000	0.000000	-755.70	-1728.98
1	FID	ACIS-S-4	7.20	2472	-0.050	-0.006	0.005	0.009	0.000000	0.000000	2157.31	178.91
2	FID	ACIS-S-5	7.24	2472	0.016	-0.003	0.006	0.011	0.000000	0.000000	-1807.84	173.21
3	GUIDE	155455360	9.37	4944	-0.063	0.041	0.096	0.155	5.717906	22.177549	-2080.38	-2321.88
4	GUIDE	155321768	8.94	4943	0.023	-0.025	0.069	0.114	4.613794	21.477628	1480.81	375.64
5	GUIDE	155457512	9.08	4944	-0.058	-0.042	0.081	0.137	5.391079	21.239451	-1162.64	1107.47
6	GUIDE	155331936	9.30	4940	0.086	-0.070	0.090	0.148	5.163761	21.833166	-296.56	-989.41
7	GUIDE	155320904	9.65	4924	0.028	0.096	0.113	0.292	4.856782	21.638106	695.39	-238.83

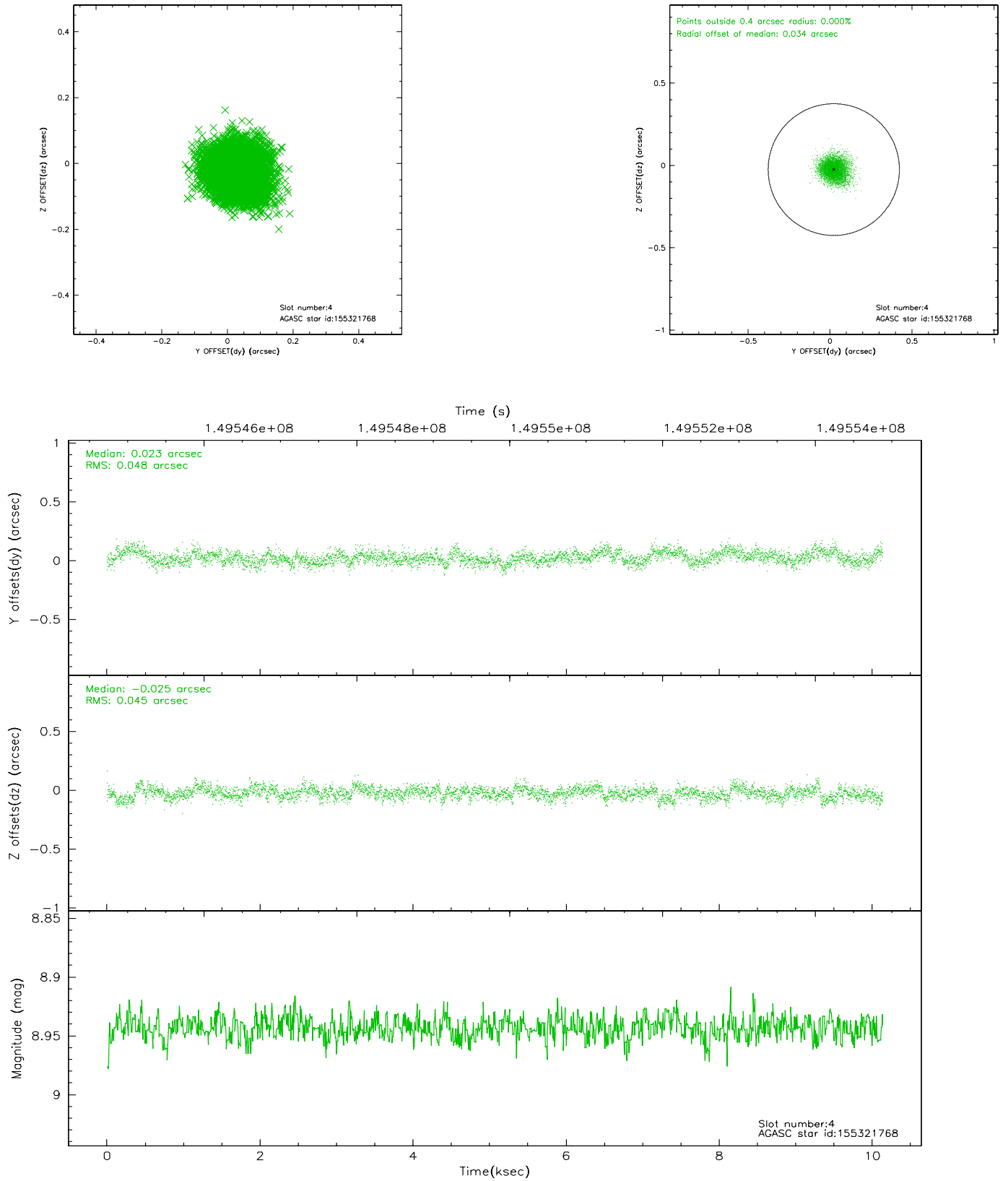


## 2.4 Star Slots

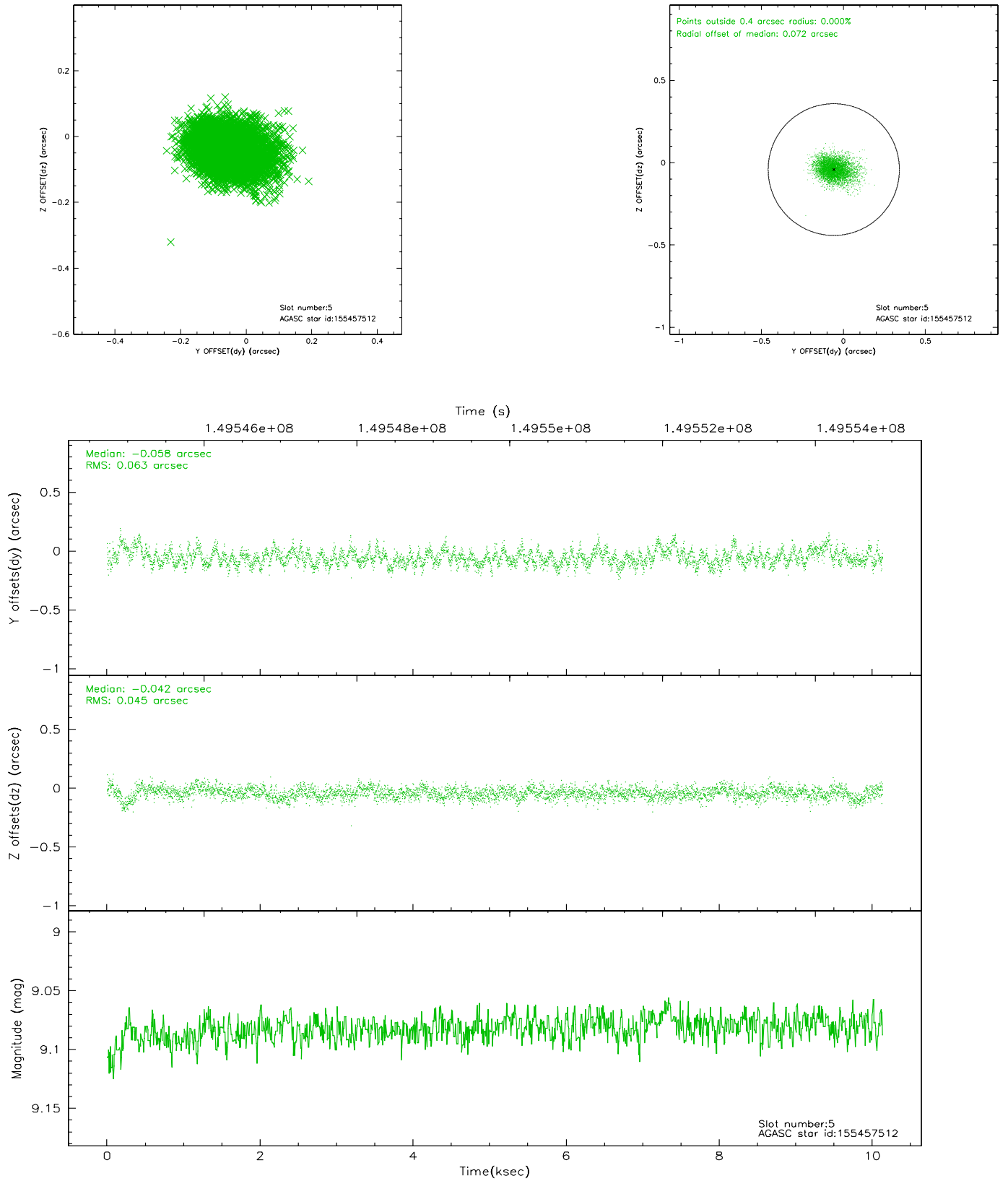
### 2.4.1 Slot 3



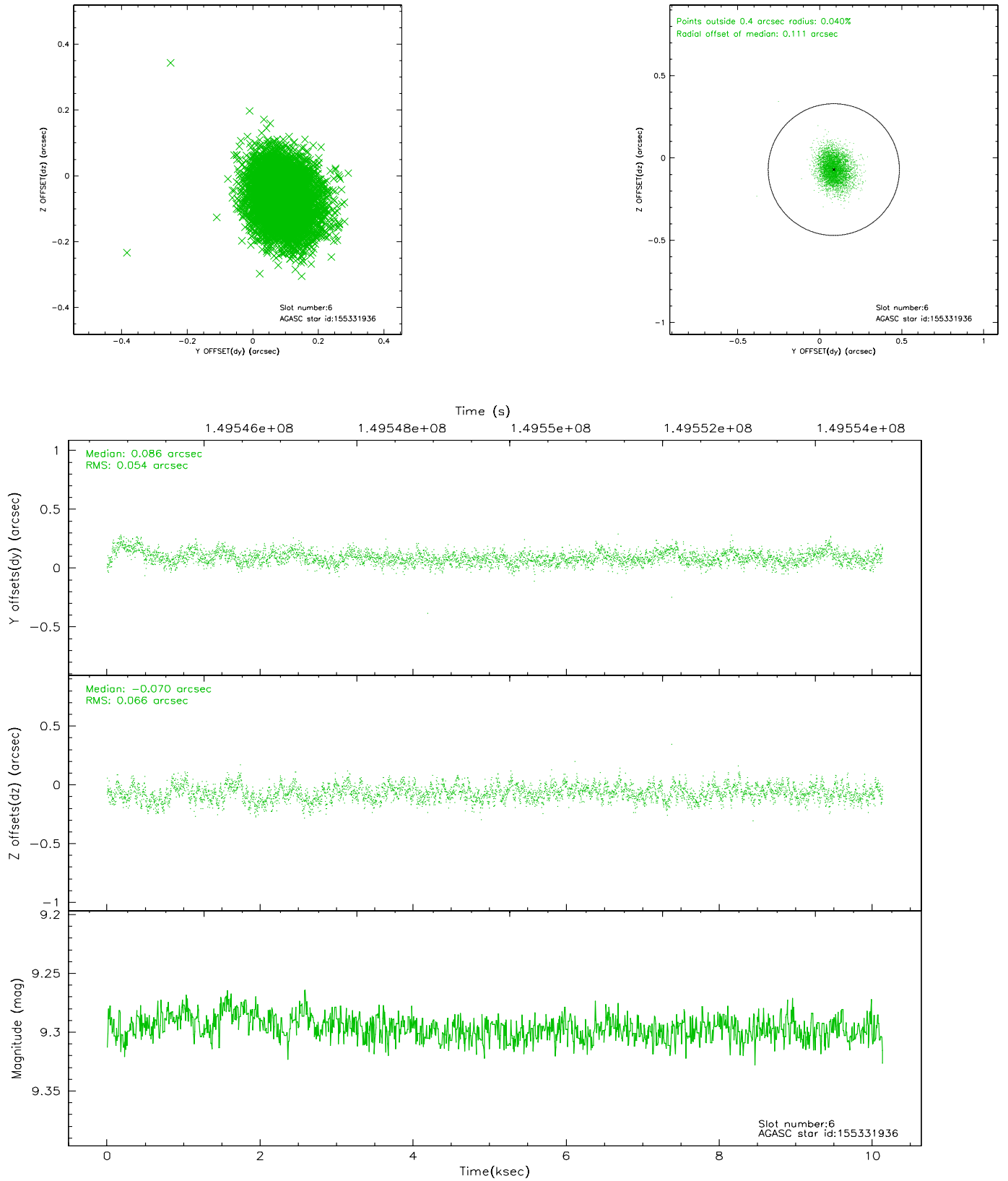
## 2.4.2 Slot 4



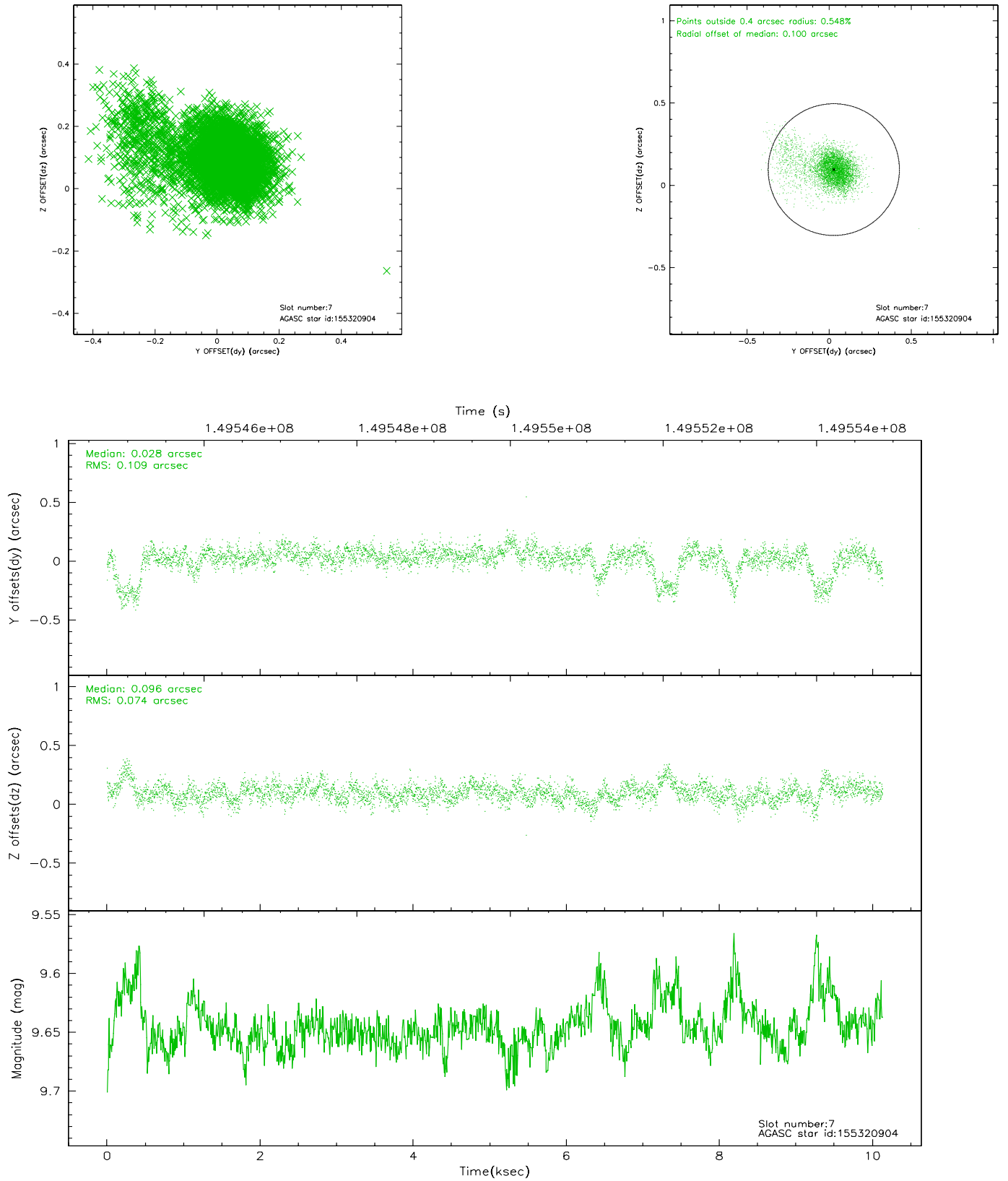
### 2.4.3 Slot 5



## 2.4.4 Slot 6

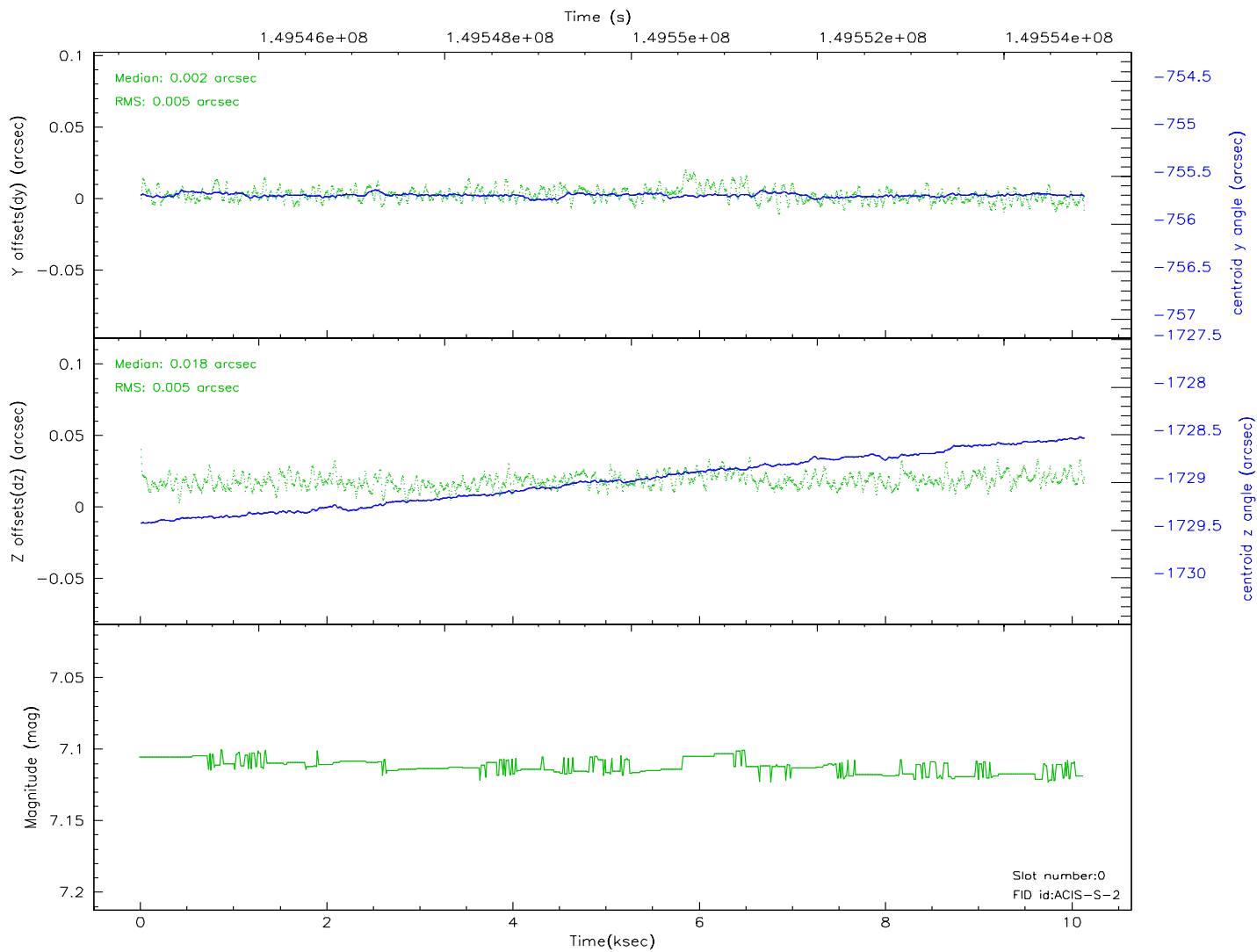
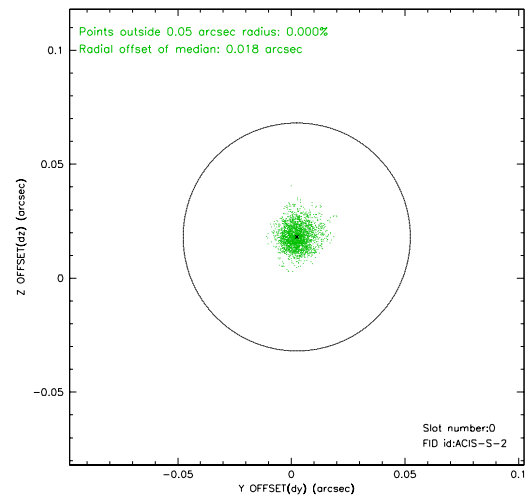
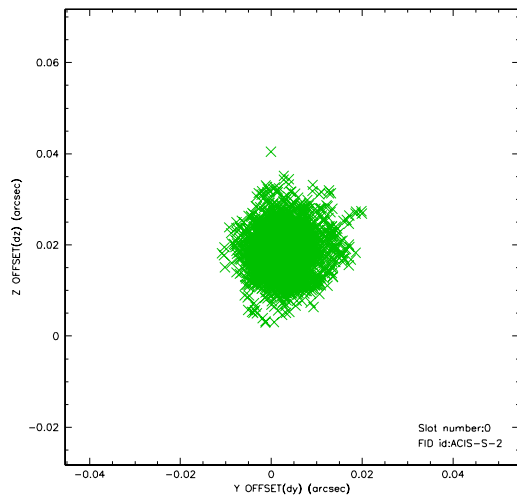


## 2.4.5 Slot 7

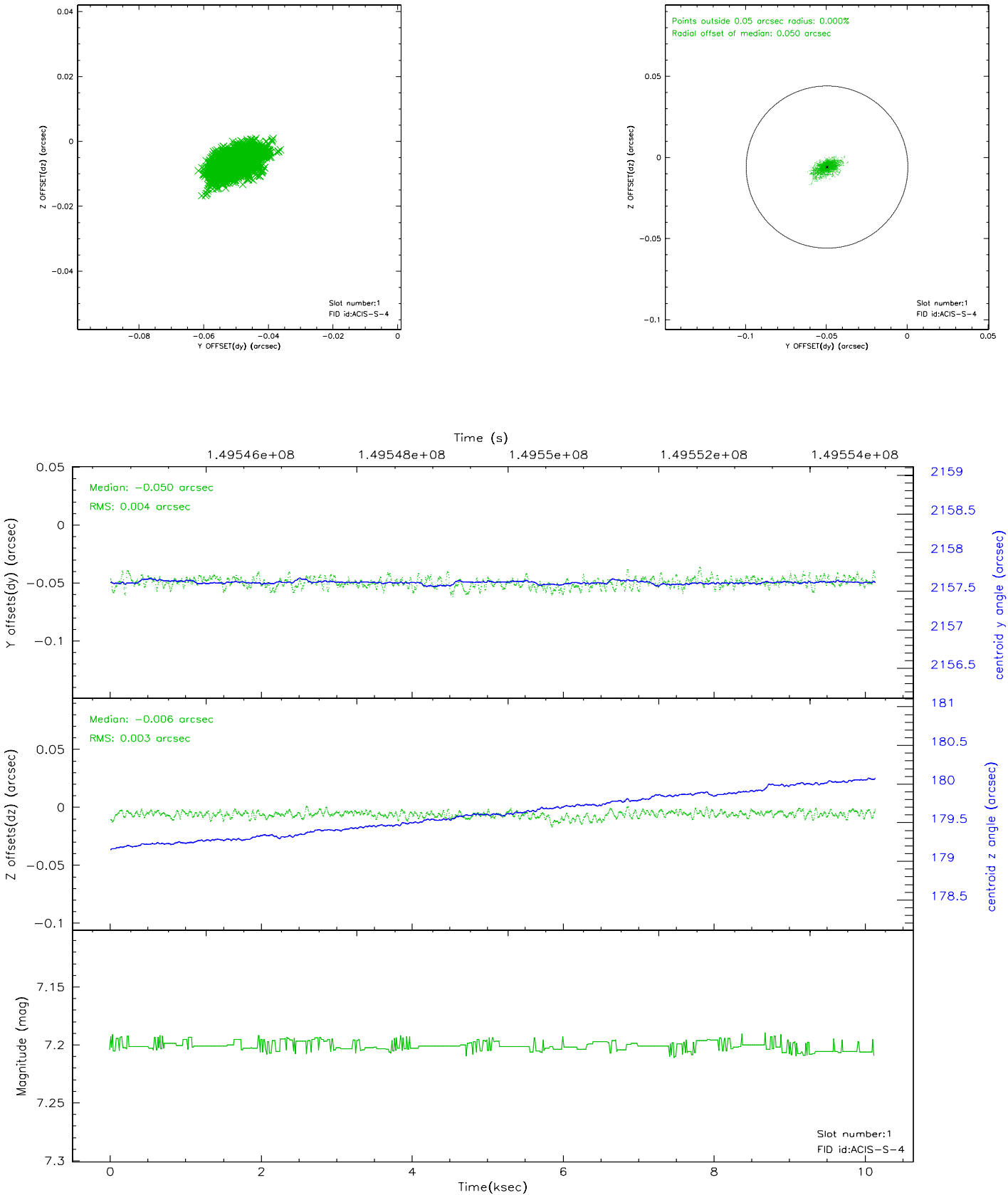


## 2.5 FID Slots

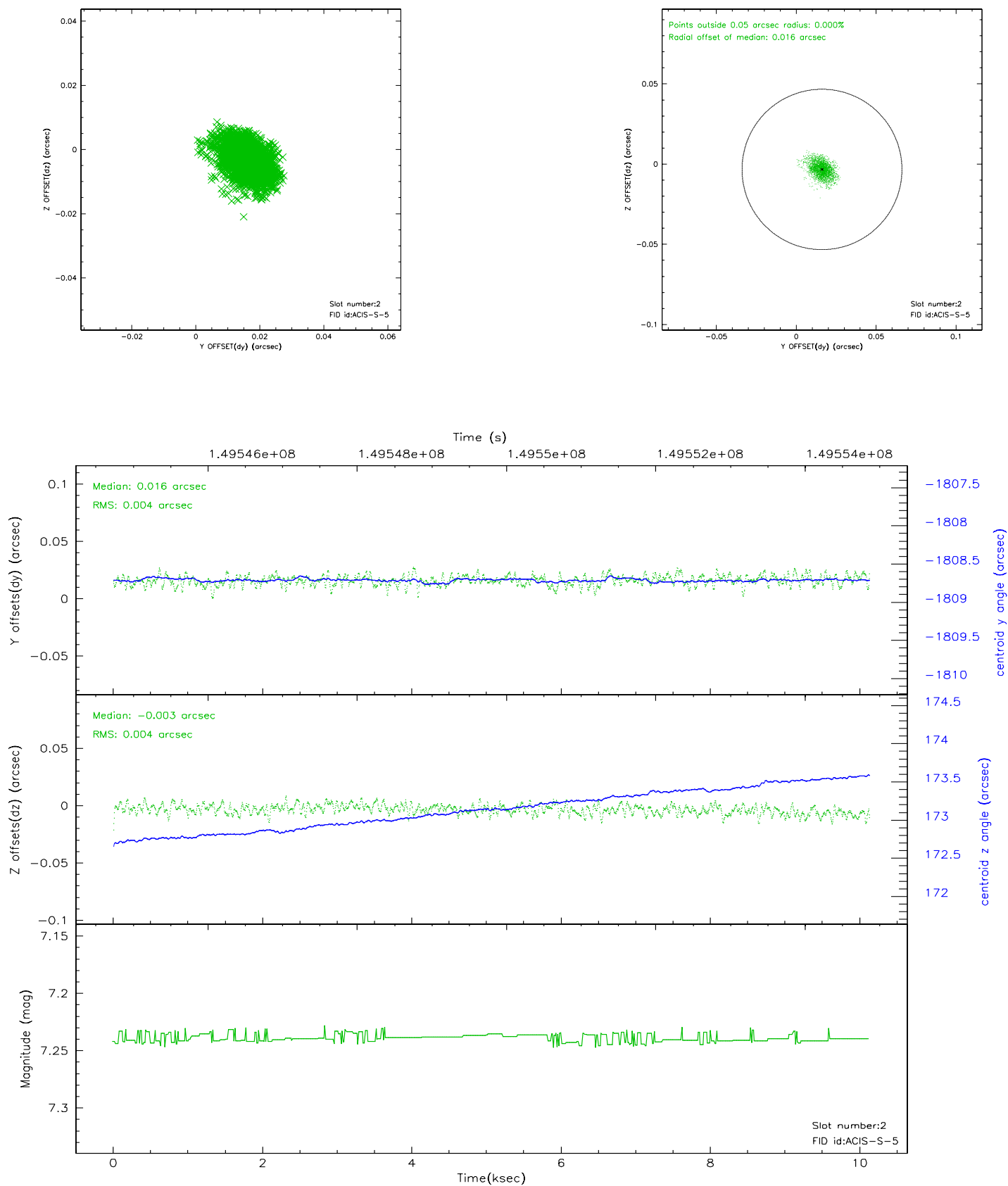
### 2.5.1 Slot 0



2.5.2 Slot 1

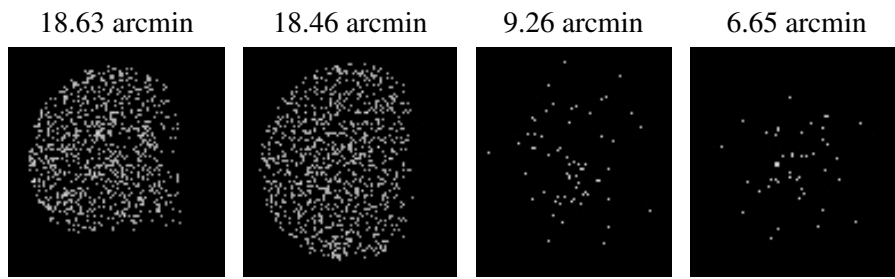


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.128

### A.2 Comments